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IMPROVEMENTS IN AN ENDOVASCULAR ELECTROLYTICALLY
DETACHABLE WIRE AND TIP FOR THE FORMATION OF THROMBUS IN
ARTERIES, VEINS, ANEURYSMS, VASCULAR MALFORMATIONS AND
ARTERIOVENOUS FISTULAS

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Abstract of the Disclosure

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10 An artery, vein, aneurysm, vascular malformation or arterial fistula is
occluded through endovascular occlusion by the endovascular insertion of a
platinum wire and/or tip into the vascular cavity. The vascular cavity is packed with
the tip to obstruct blood flow or access of blood in the cavity such that the blood
clots in the cavity and an occlusion is formed. The tip may be elongate and flexible
so that it packs the cavity by being folded upon itself a multiple number of times, or
may pack the cavity by virtue of a filamentary or fuzzy structure of the tip. The tip is
then separated from the wire mechanically or by electrolytic separation of the tip
15 from the wire. The wire and the microcatheter are thereafter removed leaving the
tip embedded in the thrombus formed within the vascular cavity. Movement of wire
in the microcatheter is more easily tracked by providing a radioopaque proximal
marker on the microcatheter and a corresponding indicator marker on the wire.
Electrothrombosis is facilitated by placing the ground electrode on the distal end of
20 the microcatheter and flowing current between the microcatheter electrode and the
tip.